ASSIGNMENT 6

Textbook assignment: Chapter 9 - Advanced Base Field Structures and Embarkation Chapter 10 - Heavy Construction

- 6-1. After an ABFC shipment is arranged in a storage area, what should be the next step?
 - 1. Fit parts together
 - 2. Inventory
 - 3. Start erection process
 - 4. Report discrepancies
- 6-2. A PEB is shipped with all materials and instructions necessary for erection.
 - 1. True
 - 2. False
- 6-3. In military construction, how many teams are recommended for the erection of a 20- by 48-foot PEB?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four
- 6-4. The 20- by 48-foot, rigid-frame, straight-walled building can easily be disassembled, moved, and erected again without waste or damage because of what feature?
 - 1. Prestressed concrete pads
 - 2. Large metal C-clamps
 - 3. Bolted connections
 - 4. Fiberboard panels
- 6-5. Before placing concrete for the foundation piers of a rigid-frame building, which of the following tasks should you perform?
 - 1. Bolt the frames together only
 - Place templates and anchor bolts only
 - 3. Uncrate the paneling only
 - 4. All of the above

- 6-6. While the foundation is being prepared for a 20- by 48-foot rigid-frame building, which of the following work assignments can you perform?
 - 1. Glaze the windows only
 - 2. Bolt the rigid-frame assemblies only
 - 3. Assemble the door leaves only
 - 4. Any of the above
 - 6-7. Until ready to be used, which of the following materials should remain crated?
 - 1. Girts
 - 2. Panels
 - 3. Eave struts
 - 4. Brace rods
 - 6-8. What should you do to ensure building materials are accessible during assembly of a PEB?
 - 1. Keep all building materials in one central location
 - Keep the building materials on trucks
 - Place the materials around the building site where they will be used
 - 4. Maintain at least 50 ft of clearance between the stockpiles of building materials
- 6-9. In PEBs, the high-strength bolts used to connect the rigid-frame assemblies are identified by what means?
 - A painted mark across the bolt threads
 - A notch at the base of each bolt
 - 3. An embossed HS on each bolt head
 - 4. An embossed Y on each bolt head

- out and checked, erection of a 20- by 48-foot PEB should begin with the center frame member.
 - 1. True
 - 2. False
- 6-11. During the course of erecting a PEB, when is the framework first plumbed?
 - installed
 - 2. After the exterior panels are positioned
 - 3. Before the base angles are installed
 - 4. After all the brace rods are in position
- 6-12. be taken before the panels of a PEB are installed?
 - Install the furring strips
 Install the windows

 - 3. Straighten the girts
 - 4. Straighten the stringers
- wall panels of a PEB, which of the following operations is correct?
 - 1. 1/4- by 1-in. machine screws are placed first
 - before the lower wall panels
 Upper wall panel 2. Upper wall panels are placed
 - 3. Upper wall panels overlap the lower wall panels
 - 4. Lower wall panels overlap the upper wall panels
- 6-14. Where should the cave panels for a PEB be installed?
 - 1. One row ahead of the ridge
 - 2. Two rows ahead of the ridge
 - 3. One row behind the ridge panels
 - 4. Two rows behind the ridge panels

- 6-10. Once all the parts have been laid 6-15. When should the doorjambs of a PEB be installed?
 - 1. After installing the interior
 - 2. After end-wall structural parts are completed
 - 3. After installing exterior end-wall panels
 - 4. After installing the roof panels
 - 1. Before the sidewall girts are 6-16. What kind of concrete nails should you use to nail the base furring to the concrete deck of a PEB?
 - 1. 8d, box
 - 2. 2 in., No. 10
 - 3. 1 1/4 in., No. 9
 - 4. 3/4 in., No. 8 flathead
 - Which of the following steps must 6-17. After placing the base, corner, and gable furrings of a PEB, what should you install next?
 - 1. Hardboard liners
 - 2. Eave moldings
 - 3. Batten strips
 - 4. Vertical furring
- 6-13. When placing the upper and lower 6-18. When installing hardboard in a PEB, you should ensure the gap between panels is
 - 1. 1/8 in.
 - 2. 1/4 in.
 - 3. 5/16 in
 - $4. \quad 3/8 \quad in.$
 - 6-19. For the flooring of a wood-frame tent, what material should you use?
 - 1. 3/8-in. fiberboard
 - 2. 5/8-in. pressboard
 - 3. 1/2-in. plywood
 - 4. 1/4-in. tempered Masonite™
 - 6-20. Wall and roof framing members of a 16- by 32-foot wood-frame tent should have what spacing?
 - 1. 1 ft OC
 - 2. 2 ft oc
 - 3. 3 ft oc
 - 4. 4 ft oc

- 6-21. When modified with a metal roof, 6-27. The two main components of a timber extended rafters, and screened-in areas, a 16- by 32-foot wood-frame tent becomes what type of hut?
 - 1. Southeast Asia
 - 2. Caribbean
 - 3. Wood-frame
 - 4. Tropical
- When two 4-seat latrine boxes are 6-22. set up side by side, what size pit is required?
 - 1. 3 by 6 ft
 - 2. 2 by 6 ft
 - 3. 3 by 7 ft
 - 4. 4 by 8 ft
- How many trough-type urinals should be furnished with an 8-seat latrine?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four
- Which of the following conditions normally indicates the need for steel piles?
 - 1. Driving through compressible
 - 2. The requirement for 95-ft piles
 - 3. Light loads must be supported
 - 4. A retaining wall is needed
- 6-25. Which of the following features is used to designate the size of a pier?
 - 1. Length
 - 2. Height
 - 3. Width
 - 4. Diameter of the piling
- 6-26. A pier is protected against shock damage from a ship tied alongside by a system of
 - 1. batter piles
 - 2. bearing piles
 - 3. stringers
 - 4. fender piles

- trestle are
 - 1. bents and abutments
 - 2. substructure and superstructure
 - 3. bracing and caps
 - 4. decking and footings
- 6-28. Which of the following conditions normally require(s) trestle bents?
 - 1. Soft or marshy ground
 - 2. Swift currents
 - 3. Deep water
 - 4. Solid dry ground or shallow water
- 6-29. Which of the following is considered a vertical structural member?
 - 1. Post
 - 2. Cap
 - 3. Sill
 - 4. Girder
- How much overlap is figured in when 6-30. calculating center-to-center horizontal distance between bents?
 - 1. 1 ft
 - 2. 2 ft
 - 3. 3 ft
 - 4. 4 ft
- 6-31. What is the usual length of girder stock?
 - 1. 10 ft
 - 2. 12 ft
 - 3. 13 ft
 - 4. 14 ft
- 6-32. What is the minimum width of a single-lane trestle?
 - 1. 12 ft
 - 2. 14 ft
 - 3. 16 ft
 - 4. 18 ft

- 6-33. What size stock is used for transverse diagonal bracing?
 - 1. 2 x 2
 - 2. 2 x 4
 - 3. 2 x 6
 - 4. 2 x 8
- 6-34. When placing timber girders, the OC 6-41. spacing is what distance?
 - 1. 3 ft 3 in.
 - 2. 3 ft 3 1/4 in.
 - 3. 3 ft 3 1/2 in.
 - 4. 3 ft 3 5/8 in.
- 6-35. How many layers of planking make up a timber deck?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four
- 6-36. The timber decking consists of 3-inch planks.
 - 1. True
 - 2. False
- 6-37. At an abutment, which of the 6-43. following items prevents the approach of road from washing out or eroding?
 - 1. End cap
 - 2. End wall
 - 3. End dam
 - 4. End curb
- 6-38. Which of the following is a load-bearing member made of timber, 6-44. steel, concrete, or a combination of these materials?
 - 1. Coffer damn
 - 2. Pile
 - 3. Trestle
 - 4. Pile bent
- 6-39. What is the tip diameter of a pile shorter than 40 feet?
 - 1. 8 to 11 in.
 - 2. 9 to 12 in.
 - 3. 10 to 13 in.
 - 4. 11 to 14 in.

- 6-40. The butt diameter of piles longer then 40 feet can be greater than the distance between the pile leads.
 - 1. True
 - 2. False
 - 5-41. During a pile driving operation, which of the following actions is necessary to protect the pile from damage?
 - Cut the pile perpendicular to its axis
 - 2. Use steel shoes to protect the pile
 - 3. Sharpen the tip of the pile
 - 4. Cut the butt of the pile square and chamfer it
 - 6-42. Which of the following piles is required when piles of 80 feet or longer are required?
 - 1. Timber
 - 2. Steel
 - 3. Concrete
 - 4. Combination
 - 6-43. Which of the following piles should be used to form a continuous wall to resist horizontal pressure resulting from earth or water loads?
 - 1. Sheet pile
 - 2. Precast pile
 - 3. Cast-in-place pile
 - 4. Open-end pipe pile
 - 5-44. Which of the following is constructed below water-retaining structures to retard the flow of water through the foundation?
 - 1. Cofferdamns
 - 2. Bulkheads
 - 3. Cutoff walls
 - 4. Trench sheathing

- 6-45. piers contain which of the following information?
 - 1. Bill of materials only
 - 2. Dimensions and location of all structural members only
 - 3. Required driftpins, bolts and only
 - 4. All of the above
- When the use of batter piles is required, what is the specified angle?
 - 1. 5 in 12
 - 2. 2 in 12
 - 3. 3 in 12
 - 4. 4 in 12
- On a bridge, the inside stringers on the superstructure are fastened by what method?
 - 1. Through bolts
 - 2. Driftbolts
 - 3. Spikes
 - 4. Nails
- Which of the following conditions exist when a pile vibrates too much laterally?
 - 1. Leaning
 - 2. Cracking
 - 3. Bouncing
 - 4. Springing
- What is the minimum amount the butt of a wood pile can be crushed or broomed before you should cut it back to sound wood?
 - 1. 1 in.
 - 2. 2 in.
 - 3. 3 in.
 - 4. 4 in.
- 6-50. It is always necessary to drive a friction pile to refusal.
 - 1. True
 - 2. False

- The working drawings for timber 6-51. Waterfront structures are broadly divided into how many categories?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four
 - hardware, and bill of materials 6-52. Breakwaters and jetties fall under which of the following categories?
 - 1. Offshore structures
 - 2. Alongside structures
 - 3. Wharfage structures
 - 4. Deepwater structures
 - 6-53. Which of the following structures works to direct and confine a current or tidal flow into a selected channel?
 - 1. Breakwater
 - 2. Jetty
 - 3. Seawall
 - 4. Groin
 - Of the following structures, which 6-54. has the stabilization of a shoreline as its main purpose?
 - 1. Rubble-mound breakwater
 - 2. Caisson
 - 3. Seawall
 - 4. Jetty
 - 6-55. How many various types of cast-in-place concrete seawalls are there?
 - 1. Five
 - 2. Two
 - 3. Three
 - 4. Four
 - 6-56. Which of the following structures is placed to arrest a current and deflect it away from a shoreline?
 - 1. Breakwater
 - 2. Jetty
 - 3. Groin
 - 4. Seawall

- 6-57. Which of the following structures is a relatively thin wall supported by a series of tie rods running back to a deadman?
 - 1. Groin
 - 2. Bulkhead
 - 3. Seawall
 - 4. Caisson

- 6-58. How many types of caissons are used in constructing foundations underwater?
 - 1. One
 - 2. Two
 - 3. Three
 - 4. Four

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